

ARROWHEAD PLATING
ADMINISTRATIVE RECORD FILE *
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

1. U.S. EPA Potential Hazardous Waste Site Identification Report, 1/4/85. P. 100001-100001.
2. Report: Scovill Assessment Remediation Report, prepared by Law Environmental Services, 10/31/85. P. 100002-100041. A transmittal letter is attached.
3. Memorandum to Mr. Jay Rodstein, U.S. EPA, from Mr. Richard Brunker, U.S. EPA, re: Level of threat from conditions at the Arrowhead Associates Site, 2/12/86. P. 100042-100042.
4. Report: Preliminary Assessment of Arrowhead Associates Facility, prepared by Commonwealth of Virginia Bureau of Solid Waste Management, 3/28/86. P. 100043-100098.
5. Report: Site Inspection Report, prepared by the U.S. EPA, 6/15/89. P. 100099-100114.

* Administrative Record File available 5/17/91, updated 9/25/91, 10/1/91, 2/12/92, 2/10/93, and 9/30/98.

II. REMEDIAL ENFORCEMENT PLANNING

1. Consent Agreement and Order In The Matter Of:
Arrowhead Plating Site, Route 3, Montross, Virginia,
Scovill Inc., Respondent, Docket No. III-86-12-DC,
7/3/86. P. 200001-200012.
2. Administrative Order on Consent In The Matter of
Arrowhead Plating Site, 7/14/89. P. 200013-200042.

III. REMEDIAL RESPONSE PLANNING

1. Report: Remedial Investigation and Feasibility Study, Arrowhead Plating Site, Montross, Virginia, Work Plan, Volume II, prepared by ICF Technology Incorporated, 8/22/89. P. 300001-300292.
2. Letter to Mr. Gary Dietrich, ICF Technology, from Ms. Nora M. Okusu, Virginia Department of Waste Management, re: Approval of the Work Plan, 2/5/90. P. 300293-300294.
3. Report: Remedial Investigation and Feasibility Study, Arrowhead Plating Site, Montross, Virginia, Work Plan, Volume I, prepared by ICF Technology Incorporated, 3/12/90. P. 300295-300412.
3. Report: Remedial Investigation and Feasibility Study, Arrowhead Plating Site, Montross, Virginia, Work Plan, Volume III, prepared by ICF Technology Incorporated, 3/12/90. P. 300413-300803.
4. Letter to Mr. James Kuszjak [sic], Ogletree, Deakins, Nash, Smoak, and Stewart, from Ms. Sharon Skutle Wilcox, Virginia Department of Waste Management, re: Round one and two sampling results, 12/5/90. P. 300804-300806.
5. Letter to Mr. Khoa Nguyen, Virginia Department of Waste Management, from Ms. Claudia A. Brand, ICF Kaiser Engineers, re: Description of data collected and proposal for additional field investigation activities, 1/18/91. P. 300807-300830. The following are attached:
 - a) Figure 1 - (Location of Sewage Lagoon Sampling Locations);
 - b) Figure 2 - Proposed Location of Additional Monitoring Wells;
 - c) Figure 3 - Revised Remedial Investigation Schedule;
 - d) Table 1 - Summary of Inorganic Compounds in Surface Soils;
 - e) Table 2 - Summary of Total Cyanide in Scates Branch Surface Water Samples;

- f) Table 3 - Inorganic Analyses of Sewage Lagoon Water;
 - g) Table 4 - Inorganic Analyses of Sewage Lagoon Sediments;
 - h) Table 5 - Analytical Procedures and QA/QC Protocol;
 - i) Attachment 1 - Procedures for Additional Field Work;
 - j) Attachment 2 - Aerial Photographs of Site with Proposed Boring/Well Locations.
6. Letter to Mr. Khoa Nguyen, Virginia Department of Waste Management, from Ms. Claudia A. Brand, ICF Kaiser Engineers, re: Modified soil boring/monitoring well locations and sampling for additional work, 2/1/91. P. 300831-300837. A map of proposed locations for additional monitoring wells, summary of additional borings/wells for the remedial investigation and procedures for additional field work are attached.
 7. Field Trip Reports for the Commonwealth of Virginia, 4/12/90, 4/12/90, 4/19/90, 4/24/90, 4/26/90, 5/2/90, 5/8/90, 5/9/90, 5/10/90, 5/30/90. P. 300838-300865.
 8. Field Trip Reports for U.S. EPA Oversight Contractors, 4/25/90, 6/11/90, 6/27/90, 7/6/90, 8/14/90. P. 300866-300894.
 9. Monthly Progress Reports prepared by ICF Kaiser Engineers for the RI/FS, 1/90-3/91. P. 300895-301285.
 10. Report: Draft Remedial Investigation Report, Arrowhead Plating Site, Montross, VA, Volume I, prepared by ICF Kaiser Engineers, Inc., 5/1/91. P. 301286-301554.
 11. Report: Draft Remedial Investigation Report, Arrowhead Plating Site, Montross, VA, Volume II, Appendices B-L, prepared by ICF Kaiser Engineers, Inc., 5/1/91. P. 301555-302112.
 12. Letter to Ms. Claudia Brand, ICF Kaiser Engineers, Inc., from Mr. Khoa Nguyen, Virginia Department of

Waste Management, re: Comments from the state and EPA on the draft RI, 6/25/91. P. 302113-302132.

13. Report: Final Draft Feasibility Study, Arrowhead Plating Site, Montross, VA, prepared by ICF Kaiser Engineers, 7/23/91. P. 302133-302234.
14. Letter to Ms. Claudia A. Brand, ICF Kaiser Engineers, Inc., from Mr. Khoa Nguyen, Virginia Department of Waste Management, re: Comments from the state and EPA on the draft FS, 8/15/91. P. 302235-302243.
15. Letter to Mr. Paul Spaulding, Virginia Department of Waste Management, from Mr. Gordon Kerby, Virginia Department of Air Pollution Control, re: Information concerning type of samplers, recommended monitoring protocol, analytical methods and monitoring frequency for the air emissions, 9/16/91. P. 302244-302246.
16. Letter to Mr. Paul Spaulding, Virginia Department of Waste Management, from Mr. Burton R. Tuxford, II, Commonwealth of Virginia State Water Control Board, re: Transmittal of effluent limitations and the Toxic Monitoring Program, 9/20/91. P. 302247-302260. Tables of effluent limitations, the Toxic Monitoring Program, and a facsimile cover sheet are attached.
17. Record of Decision, Arrowhead Plating Superfund Site, 9/91. P. 302261-302387.
18. Report: Remedial Investigation Report, Arrowhead Plating Site, Montross, VA, Volume I, Final Report, prepared by ICF Kaiser Engineers, 8/14/91. P. 302388-302710. A cover letter and Attachment 1, Responses to Virginia Department of Waste Management and U.S. EPA Region III Comments Remedial Investigation Report are attached.
19. Report: Remedial Investigation Report, Arrowhead Plating Site, Montross, VA, Volume II, Appendices B-L, Final Report, prepared by ICF Kaiser Engineers, 8/14/91. P. 302711-303266.
20. Report: Feasibility Study, Arrowhead Plating Site, Montross, VA, prepared by ICF Kaiser Engineers, 9/12/91. P. 303267-303375. A cover letter and Attachment 1, Responses to Virginia Department of Waste

Management and U.S. EPA Region III Comments Feasibility Study Report are attached.

21. Proposed Plan, Arrowhead Plating Site, Montross, Virginia, 8/91. P. 303376-303395
22. Explanation of Significant Differences, Arrowhead Plating Site, 9/15/98. P. 303396-303407.

IV. REMOVAL RESPONSE PROJECTS

1. Reports: Draft Remedial Action Plan, Former Plating Site, Montross, Virginia, prepared by Law Environmental Services, 3/86. P. 400001-400027. A letter regarding the report is attached.
2. Report: Report of Waste Characterization, prepared by Law Environmental Services, 6/86. P. 400028-400276.
3. Memorandum to Dr. J. Winston Porter, U.S. EPA, from Mr. James M. Seif, U.S. EPA, re: Immediate removal action for the Arrowhead Plating Company, 7/3/86. P. 400277-400282. A CERCLA funding action memorandum is attached.
4. Letter to Mr. Mohammad Habibi, Virginia Department of Waste Management, from Ms. Kathleen A. McNelis and Mr. L. David Wheelless, Law Environmental Services, re: Procedural information regarding the burning of hydrazine solution at the site, 7/31/86. P. 400283-400284.
5. Letter to Mr. Robin Aitken, U.S. EPA, from Mr. L. David Wheelless, Law Environmental Services, re: Status and abatement activities contained in the consent order for the site, 8/28/86. P. 400285-400287.
6. Report: Phase II Plan, Former Plating Site, Route 3, Montross, Virginia, prepared by Law Environmental Services, 8/29/86. P. 400288-400306. A transmittal letter is attached.
7. Report: Phase I Abatement Plan, Former Plating Site, Route 3, Montross, Virginia, prepared by Law Environmental Services, 9/12/86. P. 400307-400344. A transmittal letter is attached.
8. Letter to Mr. Charles Perry, Ogletree, Deakins, Nash, Smoak and Stewart, from Mr. Robin Aitken, U.S. EPA, re: EPA's comments on the proposed work plan, 10/17/86. P. 400345-400345.
9. Letter to Mr. Charles A. Perry, Ogletree, Deakins, Nash, Smoak and Stewart, from Mr. Bruce P. Smith, U.S. EPA, re: Approval of the Phase I Plan, 12/4/86. P. 400346-400348. The proposed schedule and concurrences are attached.

10. U.S. EPA Fact Sheet, Arrowhead Plating Company Site, 12/8/86. P. 400349-400350.
11. Letter to Dr. Wladimir Gulevich, U.S. EPA, from Mr. Robin Aitken, U.S. EPA, re: Schedule of cleanup activities, 12/12/86. P. 400351-400351.
12. Letter to Mr. Robin Aitken, U.S. EPA, from Mr. Charles A. Perry, Ogletree, Deakins, Nash, Smoak and Stewart, re: Procedure for handling the material in the anodizing pit, 1/14/87. P. 400352-400352.
13. Memorandum to file from Mr. Robin Aitken, U.S. EPA, re: Onsite meeting, 2/16/87. P. 400353-400353.
14. Report: Draft January Monthly Report, CERCLA Removal Oversight, prepared by Versar Inc., 2/17/87. P. 400354-400359.
15. Letter to Mr. Keith Fowler, Commonwealth of Virginia State Water Control Board, from Ms. Kathleen A. McNelis and Mr. L. David Wheelless, Law Environmental Services, re: Permitting process, 2/20/87. P. 400360-400361.
16. Report: Draft February Monthly Report, CERCLA Removal Oversight, prepared by Versar Inc., 3/10/87. P. 400362-400365.
17. Report: Report of Building Surface Sampling, prepared by Law Environmental Services, 4/87. P. 400366-400586.
18. Letter to Mr. Vincent Carpano, State Water Control Board, from Mr. Walter F. Lee, U.S. EPA, re: Use of the National Pollutant Discharge Elimination System (NPDES) waiver authority, 4/9/87. P. 400587-400587.
19. Report: March Monthly Report, CERCLA Removal Oversight, prepared by Versar Inc., 4/14/87. P. 400588-400678. A transmittal letter is attached.
20. Report: Report of Phase II Characterization, prepared by Law Environmental, Inc., 5/87. P. 400679-401027.
21. Report: April Monthly Report, CERCLA Removal Oversight, prepared by Versar Inc., 5/15/87. P. 401027A-401027C.
22. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Vince A. Carpano, Commonwealth of Virginia State Water Control

Board, re: Effluent limitation for proposed discharge from noted treatment ponds, 5/27/87. P. 401028-401031. A memorandum regarding limitations and a table on ammonia are attached.

23. Letter to Ms. Ellen Teplitzky, U.S. EPA, from Mr. Charles A. Perry, Ogletree, Deakins, Nash, Smoak and Stewart, re: Phase IB Abatement Plan, 8/7/87. P. 401032-401045. The plan is attached.
24. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Charles A. Perry, Ogletree, Deakins, Nash, Smoak, and Stewart, re: Approval and amendment to Phase IB work plan, 9/4/87. P. 401046-401047.
25. Report: Phase II Abatement Plan, prepared by ICF Technology Inc., 10/9/87. P. 401048-401081.
26. Letter to Mr. Charles A. Perry, Ogletree, Deakins, Nash, Smoak and Stewart, from Mr. Walter F. Lee, U.S. EPA, re: Approval of the abatement plan, 10/18/87. P. 401082-401082.
27. Report: Draft Interim Final Report, Arrowhead Plating Site, CERCLA Removal Oversight, prepared by Versar, Inc., 12/23/87. P. 401083-401090. A transmittal letter is attached.
28. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Charles A. Perry, Ogletree, Deakins, Nash, Smoak & Stewart, re: Change in the Phase II Abatement Plan, 6/6/88. P. 401091-401092.
29. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Discharge criteria set by the State Water Control Board, 7/15/88. P. 401093-401099. A memorandum regarding effluent limitations and two pages of the abatement plan are attached.
30. Report: Draft July Monthly Report, CERCLA Removal Oversight, prepared by Versar, Inc., 8/16/88. P. 401100-401118. A transmittal letter is attached.
31. Report: Draft August Monthly Report, CERCLA Removal Oversight, prepared by Versar, Inc., 9/16/88. P. 401119-401141. A transmittal letter is attached.

32. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Transmittal of soil sample results and request for approval of proposed additional removal actions, 9/19/88. P. 401142-401282. The soil sampling results are attached.
33. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Water samples, 9/19/88. P. 401283-401326. The water sampling results are attached.
34. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Soil data, 10/19/88. P. 401327-401348. A memorandum transmitting the soil data and the soil data are attached.
35. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Assessment of soil sampling results, 12/12/88. P. 401349-401403. The soil sampling results are attached.
36. Report: Draft Final Report, Oversight at the Arrowhead Plating Facility, prepared by Versar, Inc., 1/3/89. P. 401404-401455. A transmittal letter is attached.
37. Letter to Mr. Walter Lee, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Transmittal of additional soil sample results and the assessment of the results, 1/11/89. P. 401456-401464.
38. Letter to Mr. William Steuteville, U.S. EPA, from Mr. Gary N. Dietrich, ICF Technology Incorporated, re: Samples taken from pond bottoms, 5/1/89. P. 401465-401535. Sampling data and an analysis narrative are attached.
39. Letter to Mr. Gary N. Dietrich, ICF Technology Incorporated, from Mr. William Steuteville, U.S. EPA, re: Review of the proposal to backfill the excavation areas, 9/8/89. P. 401536-401537.
40. Letter to Mr. Gary N. Dietrich, ICF Technology Incorporated, from Ms. Nora M. Okusu, Virginia Department of Waste Management, re: Permission granted to backfill lagoons, 10/25/89. P. 401538-401539.

41. Letter to Mr. Gary N. Dietrich, Ferric, and Mr. Jeffrey Goodman, ICF Kaiser Engineers, Inc., from Ms. Nora M. Okusu, Virginia Department of Waste Management re: Modification of the October 25, 1989 letter, 3/30/90. P. 401540-401541.
42. Letter to Mr. James Kuszaj, Ogletree, Deakins, Nash, Smoak, and Stewart, from Ms. Kimberly A. Hummel, U.S. EPA, re: Information on additional work that is needed to stabilize and vegetate the recently back filled lagoon area, 6/29/90. P. 401542-401641. A memorandum regarding a site visit, a letter regarding a site inspection, and a report entitled Virginia Erosion and Sediment Control Law and General Criteria are attached.
43. Letter to Mr. Howard Woodhead, Land Use Administrator, from Mr. Chuck Moore, Weston Services, Inc., re: Submittal of Erosion-Sediment Control Plan, 8/15/90. P. 401642-401643. The Erosion-Sediment Control Plan is attached.
44. Letter to Mr. James Kuszaj, Ogletree, Deakins, Nash, Smoak, and Stewart, from Mr. Timothy Longe, Virginia Department of Waste Management, re: Approval of the Erosion-Sediment Control Plan, 9/14/90. P. 401644-401644.
45. Memorandum to Ms. Denise M. Mosca, State Water Control Board, from Mr. Gerald A. Duff, State Water Control Board, re: Inspection of area behind A.R. Winarick, Inc., 3/5/91. P. 401645-401645.
46. Letter to Mr. Gary Dietrich, ICF Technology Inc. from Mr. William Steuteville, U.S. EPA, re: Closure of the Consent Agreement and Order, 3/12/91. P. 401646-401646.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/IMAGERY

1. Report: Aerial Photographic Analysis of Arrowhead Associates, prepared by U.S. EPA, 4/88. P.500001-500027.
2. Report: Community Relations Plan, Arrowhead Superfund Site, prepared by Virginia Department of Waste Management, 1990/1991. P. 500028-500064.
3. Virginia Department of Waste Management, Arrowhead Superfund Site, Community Relations Update, 2/91. P. 500065-500072.
4. Community Relations Update, Arrowhead Associates Superfund Site, 7/91. P. 500073-500074.

BIBLIOGRAPHY OF SITE SPECIFIC GUIDANCE DOCUMENTS

1. Emergency Response Procedures for Control of Hazardous Substance Releases, prepared by R.W. Melvold, Rockwell International and L.T. McCarthy, MERL, 1/1/83.
EPA-600/D-84-023
2. Superfund Removal Procedures, Revision #3, prepared by OSWER/OERR, 2/1/88.
OSWER #9360.0-03B
3. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, prepared by OSWER/OERR, 10/1/88.
OSWER #9355.3-01
4. A Compendium of Superfund Field Operations Methods, prepared by OERR and OWPE, 12/1/87.
OSWER #9355.0-14
5. Data Quality Objectives for Remedial Response Activities: Development Process, prepared by CDM Federal Programs Corp. and OERR/OWPE, 3/1/87.
OWER #9355.0-7B
6. Data Quality Objectives for Remedial Response Activities: Example Scenario: Remedial Investigation/Feasibility Study Activities at a Site with Contaminated Soils and Groundwater, prepared by CDM Federal Programs Corp. and OERR/OWPE, 3/6/87.
OSWER #9355.0-7B
7. Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, prepared by EPA Data Review Work Group, R. Bleyler, Viar and Co./Sample Mgmt. Office, and HSED, 7/1/88.
8. Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, prepared by R. Bleyler Viar and Co. Sample Management Office, EPA Data Review Workgroup, and HSED, 2/1/88.
9. CERCLA Compliance with Other Environmental Statutes, prepared by J.S. Porter, OSWER, 10/2/85.
OSWER #9234.0-2
Attachments: Potentially Applicable or Relevant and Appropriate Requirements

10. CERCLA Compliance with Other Laws Manual Draft Guidance, prepared by OERR, 8/8/88.
OSWER #9234.1-01
11. Quality Criteria for Water 1986, prepared by Office of Water Regulations and Standards, 5/1/87.
EPA-440/5-86-001
12. Guidelines for Carcinogen Risk Assessment (Federal Register, September 24, 1986, P. 33992), prepared by EPA, 9/24/86.
13. Guidelines for Exposure Assessment (Federal Register, September 24, 1986, P. 34042), prepared by EPA, 9/24/86.
14. Guidelines for the Health Risk Assessment of Chemical Mixtures (Federal Register, September 24, 1986, P. 34014) prepared by EPA, 9/24/86.
15. Integrated Risk Information Systems (IRIS) (A Computer-Based Health Risk Information System Available Through E-Mail--Brochure on Access is Included), prepared by OHEA, (undated).
16. Superfund Exposure Assessment Manual, prepared by OERR, 4/1/88.
OSWER #9285.5-1
17. Superfund Public Health Evaluation Manual, prepared by OERR and OSWER, 10/1/86.
OSWER #9285.4-1
18. Community Relations in Superfund: A Handbook (Interim Version), prepared by OERR, 6/1/88.
OSWER #9230.0-03B
Attachment: Chapter 6 of the Community Relations Handbook, 11/3/88
19. Interim Guidance on Potentially Responsible Party Participation in Remedial Investigations and Feasibility Studies, prepared by J.W. Porter, OSWER, 5/16/88.
OSWER #9835.1a